GROUP 21B

CLUTCH OVERHAUL

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GENERAL SPECIFICATIONS

M1212000200610

Item	Specifications	
Engine model	4A91	4G15
Transmission model	F5MGA	F5MGB
Clutch disc type	Dry single plate type	Dry single plate type
Clutch disc facing diameter O.D. × I.D. mm	200 × 140	216 × 144
Clutch cover type	Diaphragm spring type	Diaphragm spring type
Clutch cover setting load N	3,600 – 4,100	5,400 – 6,000
Clutch operating method	Hydraulic type	Hydraulic type

SERVICE SPECIFICATIONS

M1212000300190

Item	Limit
Diaphragm spring end height difference mm	0.8
Clutch disc facing rivet sink mm	Minimum 0.3

TORQUE SPECIFICATIONS

M1212001800455

Item	Specifications
Mechanical release unit mounting bolt	10 ± 1 N·m
Clutch cover mounting bolt	18 ± 1 N·m

LUBRICANTS

M1212000400465

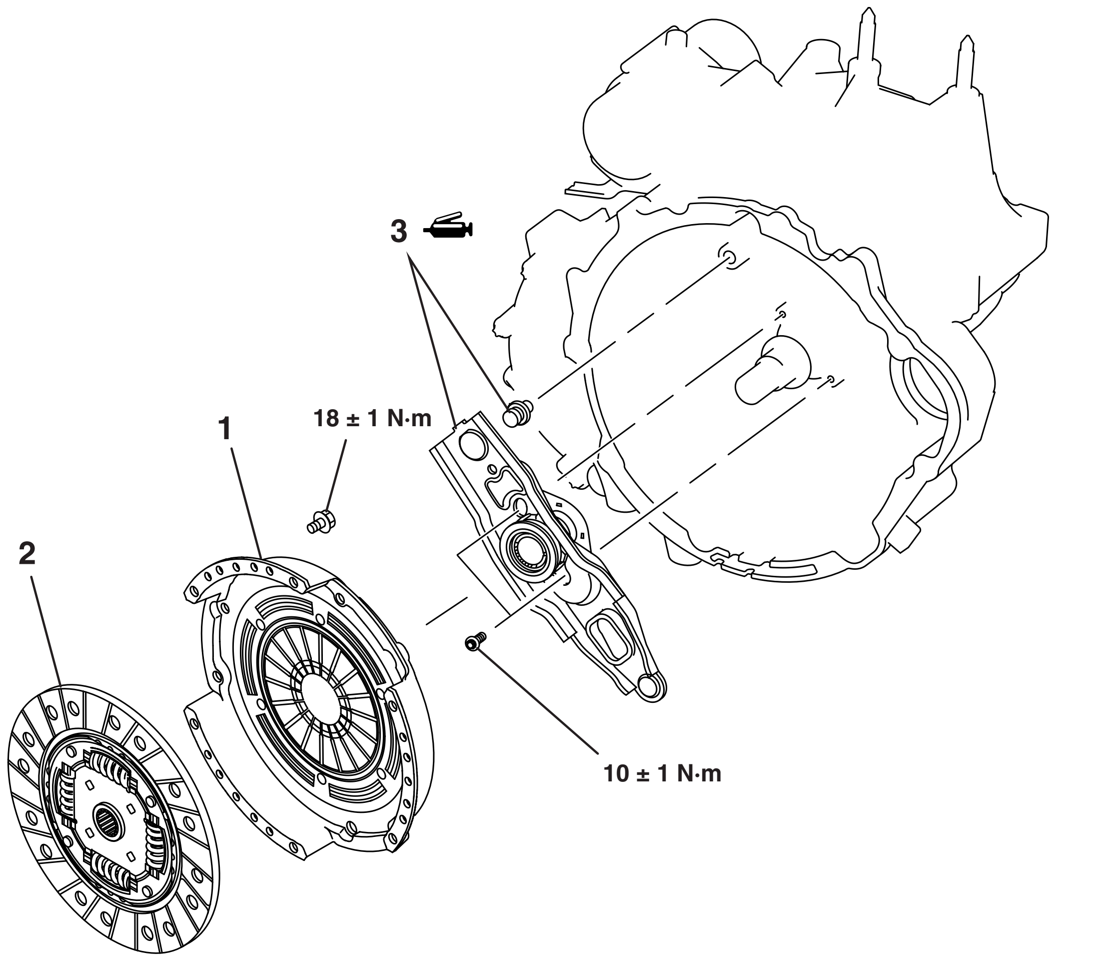
Item	Specified lubricant
Clutch lever and ball stud contact surface	Castrol Olista Longtime 3 EP

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CLUTCH

DISASSEMBLY AND REASSEMBLY

M1212001000578



Removal steps

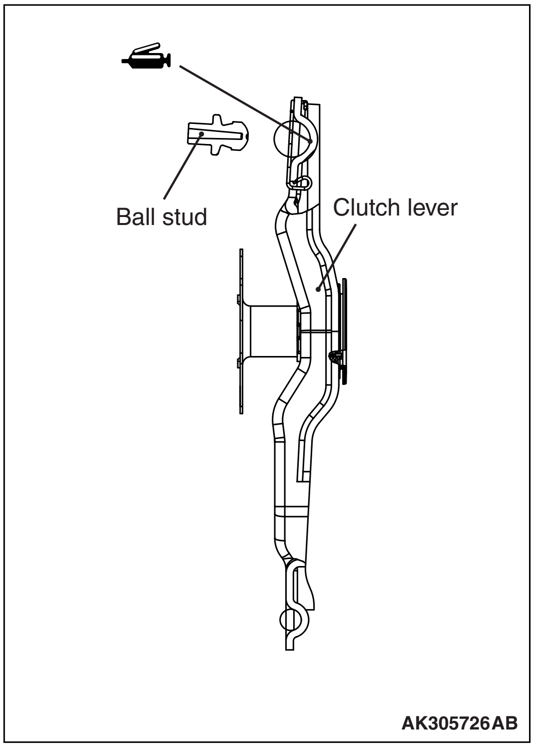
1. Clutch cover
2. Clutch disc

\>>**A**<< 3. Mechanical release unit

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REASSEMBLY SERVICE POINT

>>A<< MECHANICAL RELEASE UNIT INSTALLATION



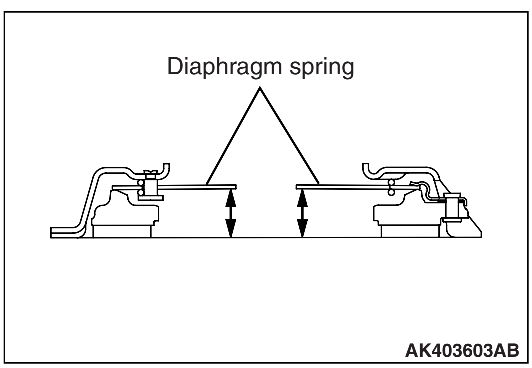
Apply grease to the illustrated positions of the clutch lever.

Specified grease:
OLISTA LONGTIME 3EP or MOLYCOTE VN 2461C

INSPECTION

M1212001100393

CLUTCH COVER



1. Check the diaphragm spring end for wear and uneven height. Replace if wear is evident or height difference exceeds the limit.

   Limit: 0.8 mm

2. Check the pressure plate surface for wear, cracks and discoloration.
3. Check the rivets of the strap plate for looseness. If loose, replace the clutch cover.

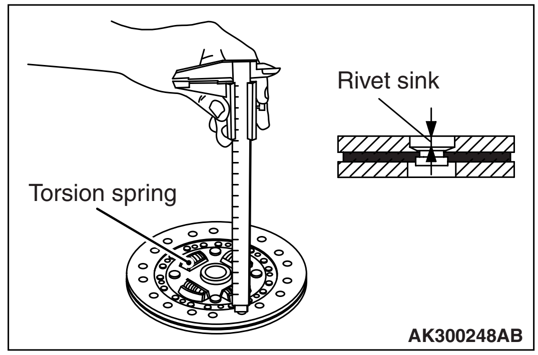
CLUTCH DISC

⚠ CAUTION

Don't clean the clutch disc in a cleaning solvent.

1. Check the facing for loose rivets, uneven contact, evidence of seizure, or deposited oils and greases. If defective, replace the clutch disc.

   NOTE: If contaminated with grease or oil, determine the source of the contaminant and repair it.



2. Measure the rivet sink. Replace the clutch disc if it is below the limit.

   Minimum limit: 0.3 mm

3. In case of except for 639 engine models, check the torsion spring for play and damage. If defective, replace the clutch disc.
4. Place the clutch disc on the input shaft and check for sliding condition and play in the rotating direction. If poor sliding condition is evident, clean, reassemble, and recheck.

   If excessive play is evident, replace the clutch disc and/or input shaft.

CLUTCH RELEASE BEARING

⚠ CAUTION

Release bearing is packed with grease. Therefore, do not wash it in a cleaning solvent.

1. Check for seizure, damage, noise or binding/rough rotation.
2. Check for wear on the surface which contacts with the diaphragm spring.
3. Check for wear on the surface which contacts with the release lever. If abnormally worn, replace the mechanical release unit.

RELEASE LEVER

If the surface which contacts with the bearing is abnormally worn, replace the mechanical release unit.